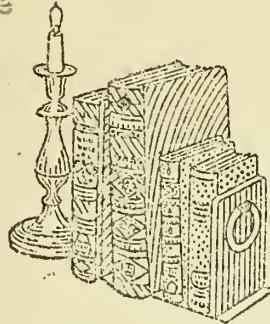


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LIBRARY NEWSLETTER

U. S. DEPARTMENT OF AGRICULTURE

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December 1951.

"The love of books, the golden key that opens the enchanted door."
--Andrew Lang.

NEW BOOKS IN THE LIBRARY

Collingwood, G. H., and Brush, W. D. KNOWING YOUR TREES. American Forestry Association, 1947. 3rd ed. 312p. 99.3 C69

The purpose of this book is "to bring to the American people, in picture and in story, the characteristics and important contributions to society of 150 of their most important trees. Identification is made easy by actual photographs of the tree, both winter and summer, its leaves, fruit, bark and, when significant, its flower. To obtain such an outstanding collection of photographs The American Forestry Association for years has been searching collections and working directly with photographers in every corner of the nation." There are 806 illustrations.

DeLury, D.B. VALUES AND INTEGRALS OF THE ORTHOGONAL POLYNOMIALS UP TO n=26. Ontario Research Foundation, 1950. 33p. 325 On8

"The principal purpose in compiling these tables is to supply the arithmetical basis for a numerical integration procedure, appropriate to situations in which the observed or measured ordinates are subject to a random error. The problem of forming, from a systematic sample, an estimate of quantity and of the error of this estimate may profitably be approached from this direction." From the Preface.

HANDBOOK OF CULVERT AND DRAINAGE PRACTICE. Armco Drainage & Metal Products, Inc., 1948. 474p. 290 Ar51

This book was prepared to aid engineers in the solution of surface and subsurface drainage problems. The introduction deals with the history and kinds of drainage and is followed by sections on strength, durability, economy, hydrology and hydraulic capacity, surface drainage, subsurface drainage, special purpose drainage, and field installation instructions.

Skoog, Folke, ed. PLANT GROWTH SUBSTANCES. Univ. of Wisconsin Press, 1951. 476p. 90.11 Sk5

This volume contains the papers presented in the general meetings and round table discussions at a symposium on plant growth substances held at the University of Wisconsin, Sept. 5-7, 1949. The papers are arranged under eight

subject headings: plant growth substances, growth substances in plant metabolism, tissue responses to growth substances, practical applications of growth regulators, growth substances in vegetative development, growth substances in reproductive development, growth substances in pathological growth, and vitamins and amino acids as growth factors.

Stebbins, J. L., Jr. VARIATION AND EVOLUTION IN PLANTS. Columbia Univ. Press, 1950. 643p. 463.6 St3

"The present book is intended as a progress report on this synthetic approach to evolution as it applies to the plant kingdom, and in particular to the seed plants. It does not intend to offer any new hypotheses, except on certain limited phases of plant evolution. On the other hand, some hypotheses, speculations, and generalizations are offered whenever they seem to serve as stimuli for further research." An idea of what the book actually covers is given by the chapter headings: Description and Analysis of Variation Patterns, Examples of Variation Patterns Within Species and Genera, The Basis of Individual Variation, Natural Selection and Variation in Populations, Genetic Systems as Factors in Evolution, Isolation and the Origin of Species, Hybridization and Its Effects, Polyploidy, Evolution Trends, Apomixis in Relation to Variation and Evolution, Structural Hybridity and the Genetic System, and Fossils, Modern Distribution Patterns and Rates of Evolution.

Thomas, H.E. THE CONSERVATION OF GROUND WATER: A SURVEY OF THE PRESENT GROUND-WATER SITUATION IN THE UNITED STATES. McGraw-Hill, 1951. 327p. 292 T36

"The book reviews basic hydrologic principles and data, and provides in outline an inventory of our total water resources. It then discusses the experience of over 70 areas (in 35 states) in ground-water development, distinguishing the main types of ground-water problems and describing the measures which have been or could be taken in each area to improve the situation. Ground-water problems resulting from pumping, from settlement and use of land, from irrigation and drainage operations, disposal of wastes, etc., are analyzed. The book also outlines the need for more effective ground-water development and the requirements for better ground-water management in the United States. A series of maps show the ground-water situation over the country including areas of over-draft, salt-water intrusion, etc." From book jacket.

SELECTED BULLETINS

Agriculture, General

Farm Production and Manpower Requirements. BAE. 1951. 1.941 M22F22

Rothamsted Experimental Station. Report for 1950. 183p. 103 R74Ga

The State of Food and Agriculture: Review and Outlook, 1951. FAO. 1951. 90p.

The Work of FAO, 1950/51: Report of the Director-General. FAO. 1951. 67p.

Bibliographies

Human Relations in Public Administration. Public Administration Service, 1949. 52p. 241.3 D36

This should be a very helpful publication--an annotated bibliography containing both books and periodical articles. There are four basic categories of items: General Frames of Reference, The Administrative Process, The Organization's Impact on Society, and Methods of Studying Administration.

These categories are broken down into such subjects as Structure of Administrative Tasks, Informal Organization, Leadership, Occupational Personality, Recruitment and Training, Employee Organization, Accomplishment of Work Objectives, Analysis of Attainment of Objectives, Public Relations, etc.

List of Publications on the Efficient Utilization of Farm Labor. Extension Service. 1951. 12p. 1.913 A20b322

Another very helpful list. Items are grouped under these headings: Work Simplification Studies, Instruction in Improved Methods, Training Seasonal Workers, Labor Relations and Management, Labor Saving Equipment and Devices, Farm Work Planning, Community Cooperation, Farm Labor Housing, Camp Management, General Farm Labor Information, and Extension Farm Labor Program.

Forestry

Financial Maturity of Bottomland Red Oaks and Sweetgum. Southern Forest Expt. Sta. Occas. Paper 117. 1951. 24p. 1.9 F762l40 117

Some Effects of Soil and Topography on Oak Yields in Southern Michigan. Lake States Forest Expt. Sta. Tech. Notes 365. 1p. 1951. 1.9 F7625T 365

Irrigation

Adapting a Lease to Irrigation Farming. Nebr. Agr. Col. Ext. Serv. C. 24. 1951. 28p. 275.29 N272 24

Sprinkler Irrigation. Bur. of Reclamation. 1949. 6lp. 156.85 Sp8

Rice

Comparison of Farming Systems for Large Rice Farms in Arkansas. Ark. Agr. Expt. Sta. Bul. 509. 1951. 37p. 100 Ar42 509

Nutritive Studies of Rice. Ark. Agr. Expt. Sta. Bul. 508. 1951. 48p. 100 Ar42 508

Rice Field Mosquito Control by Pellet-Borne Insecticides. Ark. Agr. Expt. Sta. Bul. 511. 1951. 30p. 100 Ar42 511

Soils and Soil Conservation

Books, Booklets, Bulletins, on Soil and Water Conservation." U.S.D.A. Agr. Inf. B. 63, 24p. 1951. 1 Ag84B 63

Dollars and Sense in Conservation. Calif. Agr. Expt. Sta. C. 402, 39p. 1951. 100 Cl2S 402

Food, Soil and People, by C. E. Kellogg. UNESCO. 64p. 389 K293

A Method for Rating Land. New Mexico Agr. Expt. Sta. B. 364, 13p. 1951. 100 N46B 364

Microorganisms and Their Effects on Crops and Soils. Nebr. Agr. Expt. Sta. C. 90, 16p. 1951. 100 N27

Soil Conservation Is People. Natl. Assoc. of Soil Conserv. Districts. 1lp. 1951.

Studies on Soil Structure: What It Is, How Cultural Practices Affect It, How It Affects Cotton Yields. New Mexico Agr. Expt. Sta. Tech. B. 363, 53p. 1951. 100 N46B

Miscellany

Boll Weevil Control in Late Summer. Ark. Agr. Expt. Sta. B. 510, 12p. 1951.
100 Ar42 510

"Community Improvement Organization" Type of Program in the Southern States.
Extension Service. 1951. 4p. 1.913 A2C73

Curing Hay With Forced Air. Nebr. Ext. Serv. E.C. 735, 17p. 1951.
275.29 N272Ex

The Federal Land Bank System: How It Operates. Farm Credit Admin. C. 35,
18p. 1951.

Fourteen-Year Summary of Range Improvement Studies at the U. S. Southern Great
Plains Field Station, Woodward, Oklahoma, 1937-1950. 50p.

Get Your Management Ball Rolling Toward More Effective Public Service. A Sum-
mary of Material Developed at the USDA Leadership Institute Training in
Administrative Management, Denver, Colo. Apr. 2-13, 1951. 1.91 C2G33

High-Clearance Self-Propelled Canning Corn Sprayer. BPISAE Information Ser.
103, 22p. 1951. 1.9 R531I

Instructions Concerning the Evaluation of Reservoir Sedimentation for Flood
Control Surveys. USDA. 1951. 4p. 1.96 R31Inc

The Value of Mungbeans for Fattening Calves. Okla. Agr. Expt. Sta. B. 370,
7p. 100 Ok4B 370

HAPPY NEW YEAR

Helen Boyd, Librarian
Vera S. Lind, Assistant Librarian

